

List of Qualitas Code Corpus Programs used for Encapsulation Research

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Program	Program Version	Description	Release Date
Cobertura	1.9	Code coverage tool	05/06/2007
Display Tag Library	1.1	JSP tag library	02/12/2006
EMMA: a free Java code coverage tool	2.0.5312	Code coverage tool	12/06/2005
Fit Java	1.1	Automated testing tool	07/04/2004
Galleon	1.8.0	TiVo media server	30/10/2005
Gantt Project	1.11.1	Gantt chart drawing	14/05/2005
HTMLUnit	1.8	Web testing tools	17/02/2006
Informa	0.6.5	RSS library and RDF tools	30/09/2005
Ivata Groupware	0.11.3	Groupware/ exchange/ intranet system	10/10/2005
Jag	5.0.1	J2EE application generator	13/10/2005
Java Assembling Language	0.10	Class file editing tool	23/05/2006
Jasper Reports	1.1.0	Reporting tool	01/11/2005
JChemPaint	2.0.12	Editor for 2D molecular structures	21/12/2005
JFreeChart	1.0.1	Charting and reporting tool	27/01/2006
JGraphPad	5.10.0.2	Graph drawing application	09/11/2006
JMoney	0.4.4	Personal finance manager	29/09/2003
Java Plug-in Framework	1.0.2	Plug-in infrastructure library	19/05/2007
JSP Wiki	2.2.33	Wiki engine	07/09/2005
Jung	1.7.6	Graph drawing	29/01/2007
2006-03-01 JUnit	4.5	Unit testing framework	08/08/2008
Log4J	1.2.13	Logging tool	21/09/2006
OSCache	2.3	Cache solution	06/03/2006
PicoContainer	1.3	Inversion of control container	18/03/2007
Pooka	1.1-060227	Email client	27/02/2007
Proguard	3.6	Obfuscator	14/05/2006
Quartz	1.5.2	Job scheduler	03/03/2006
Quickserver	1.4.7	Network server	01/03/2006
Quilt	0.6-a-5	Code coverage tool	20/10/2003
Roller	2.1.1	Server based weblogging software and web application	15/03/2006
Sablecc	3.1	Compiler/interpreter generating framework	29/09/2005
Sunflow	0.07.2	Render engine	08/02/2007
Trove	1.1b5	Collection library	27/12/2005
Velocity	1.5	Java template engine	20/02/2007

Table 1: Qualitas Corpus Programs analysed as part of our research about encapsulation in real-world software